

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/04176

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G01N 31/00(2006.01)

USPC: 702/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 702/28, 23, 29, 30, 31

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,E	US 2005/0226536 A1 (FASULO) 13 October 2005 (13.10.2005), Fig.1	1, 10, 19
X,E	US 2005/0092910 A1 (GEROMANOS et al) 05 May 2005 (05.05.2005), Fig.2	1, 10, 19
X,P	US 2004/0172200 A1 (KEARNEY et al) 02 September 2004 (02.09.2004), Fig. 4	1, 10, 19
X,E	US 6,989,100 B2 (NORTON) 24 January 2006 (24.01.2006), Figs 1, 7c, 9, col. 10, line 5- col. 12, line 17.	1-27
A	US 6,677,583 (UMEMURA) 13 January 2004 (13.01.2004), entire document	1-27
A	US 6,625,546 B2 (SEPETOV et al) 23 September 2003 (23.09.2003), entire document.	1-27
A	US 6,329,652 B1 (WINDIG et al) 11 December 2001 (11.12.2001), entire document.	1-27

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	"T"	Later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

20 March 2006 (20.03.2006)

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Continuation of B. FIELDS SEARCHED Item 3:
USPAT, US-PGPUB,EPO,JPO,DERWENT,IBM_TDB
search terms: LC/MS, retention time, delta, change